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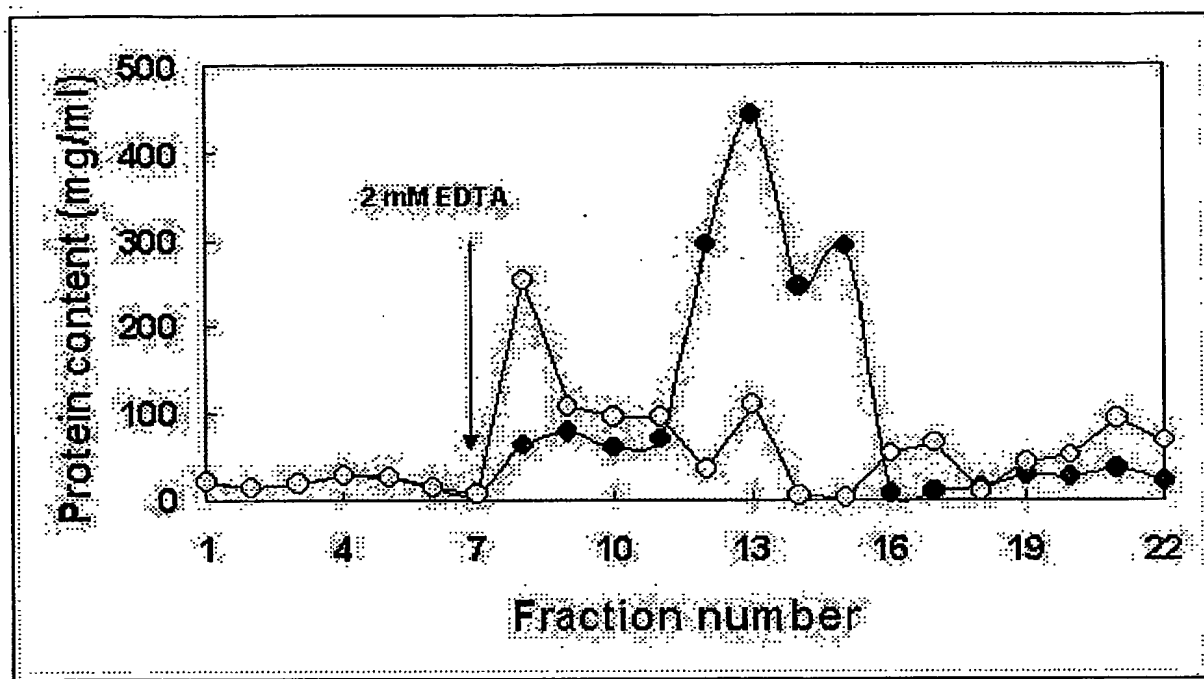
FIG. 1

AtKAPAS	VADHSNDKTVEEAVNVLESRQILSLRPICmsrqneeeivksrANGGDGYEVFDglcqw
<i>E. coli</i> BioF	V---SNDKINAALDARRAADALRRYPV---AAGAGRWLVAD
<i>B. subtilis</i> BioF	VKIDSW---LNERLDRMKEAGVHENLRSM---DEAP---TPE---
<i>B. sphaericus</i> BioF	V---NDRFRRELQVIEQGLTRKRLF---STENESEVVMN---
AtKAPAS	rtsvevsvsptfqlhdepsngEEIfsgdalaecrKGrFKKLIFSSNDVYGLSSHPT
<i>E. coli</i> BioF	---DRQYINSSNDVYGLSHPQ
<i>B. subtilis</i> BioF	---RNI---DG---ENQTVWSSNVYGLASDRR
<i>B. sphaericus</i> BioF	---S---KGLFSSNVYGLATDSR
AtKAPAS	ISNAANAVKEYGMPKESALICGVITVHRLLESSLAQLKKKDDCVPTSEFAANnaamv
<i>E. coli</i> BioF	IIIRANQQGAEQFISSESGSHVSEYVSVHQALEDLAEWLGYSRAFLFISSEFAAN----
<i>B. subtilis</i> BioF	LIDAAQTALQQFETSSSESRITENSVWHEKLEKKIASFKLTAALFSSSYLAN----
<i>B. sphaericus</i> BioF	LKKKITEGISKVGTGAGESRITENFDIEQLESSEIADPKATEAAIVSSSYLAN----
AtKAPAS	aiSSVASILaasgkplINEKVIFSDALNHASTIDGVRLAERQgnveVFVVRFCDISNC-
<i>E. coli</i> BioF	-QAVIAAMM---AKEDR---AADRISHASLLEAASLSPSQ---LRRFANDVTHLA
<i>B. subtilis</i> BioF	-VSVLSSLP---EKEDV---ISDQLNHASMIDECRLSKAD---TVVVRITDMNDLE
<i>B. sphaericus</i> BioF	-VSVISSVM---KAGDT---IFSDALNHASTIDECRLSKAK---TIVVEADAVDLE
AtKAPAS	-KM-----KRVVVIDSLFSMDGDFAPMEELSRLRKVGFLVVIDDAHGTFCSENGSG
<i>E. coli</i> BioF	-RLASPCPGQOMAVTEGVFSMDGDSAPLAEIQVITQQHNGWLMVDDAHGTGVISEQGRS
<i>B. subtilis</i> BioF	NKLNETQRYQRRTFVIDGVFSMDGTIAPLDQIISLAKRVHAFVVIDDAHGTGVLGDSECS
<i>B. sphaericus</i> BioF	RKLQSHGDGLKFIVIDGVFSMDGDIAPLPKIVELAKRYKAYIMIDDAHGTGVLNDSCS
AtKAPAS	VADFNCEADVDCVGTLSKAAACHGGFTACSKKKWQLIQSRGRSFIFSTATEVPMAAAA
<i>E. coli</i> BioF	SCWLQKVKP---ELLVITFGKGFVSSAAVLESSTVADYLLQFARHLIYSTSMPPAQAAAL
<i>B. subtilis</i> BioF	TSEYFGVCP---DIVISTLSKAVGAEGGFAGSAVFIDFLLNHARTFIEQTATPPASCAAA
<i>B. sphaericus</i> BioF	TADYFGLKDEIDFTVGTLSKALGAEGGFVSTSSIAKNVLLNNARSFIEQTALSPSAIEAA
AtKAPAS	YAAVVVARKETW---RRKAIWERVKEF---KELSGV---DISSPIISLVVGNQEKALKASR
<i>E. coli</i> BioF	RASLAVIRSDGDAERREKLAALITRFRAGVQDIPFTLADSCSAIQPLIVGDNSTRALQLAE
<i>B. subtilis</i> BioF	HEAFNIIEASR-E-KRQLLSFYISMIRTSLKMGYVVKGDHTPIIPVVIDAHKTVLFAE
<i>B. sphaericus</i> BioF	REGISIIQNEP-E-RRKQLLKNQVRLRLKLESGGFVKEGETPIISLIIGSHEAMQFSA
AtKAPAS	YLLKSEFHVMAIRPPTVPPNSCLRVILSAHITTEDVKKLITALLSSclafDNTATHIPsf
<i>E. coli</i> BioF	KLRQQSCWVTAIRPPTVPAGTARLRILTAAHEMQDIDRLLEVING-----NG-----
<i>B. subtilis</i> BioF	KLQKGSIYAPAIRPPTVAPGESRIIRIITSDESMDGIDHLLQTFHS-----IGKELHII--
<i>B. sphaericus</i> BioF	KLIDESVFIPAIRPPTVPRKSSRLRIIVMATHITIEQLDMVISKIKK-----IGKEMGIV--
AtKAPAS	lfpkI
<i>E. coli</i> BioF	----
<i>B. subtilis</i> BioF	----
<i>B. sphaericus</i> BioF	----

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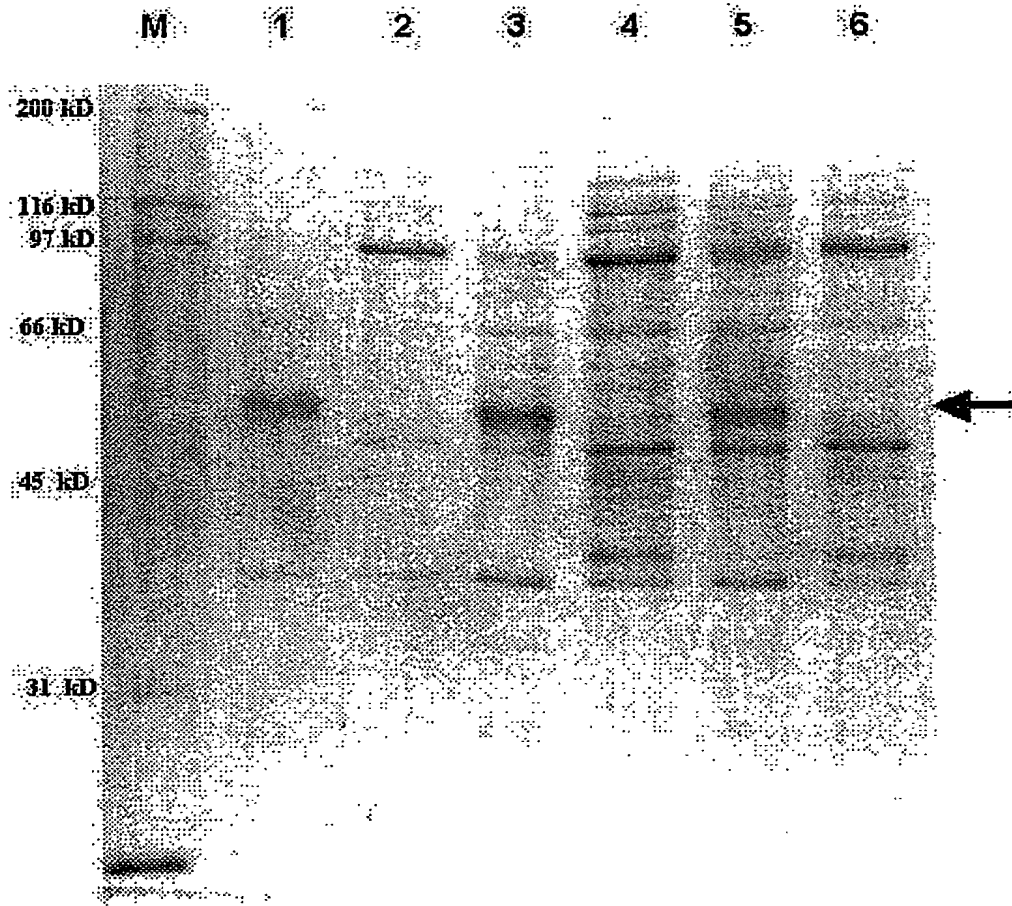
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FIG. 2



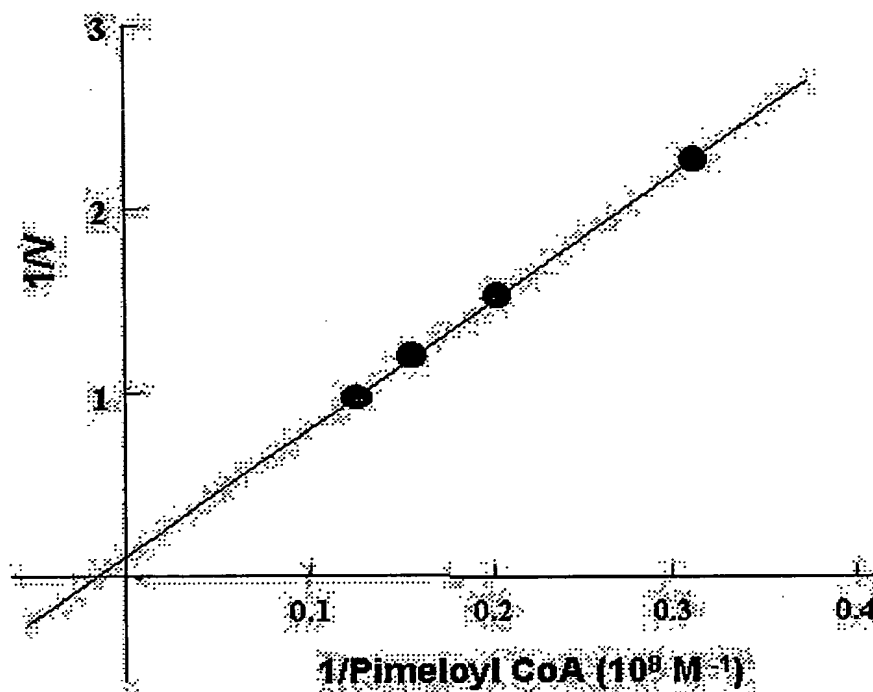
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FIG. 3



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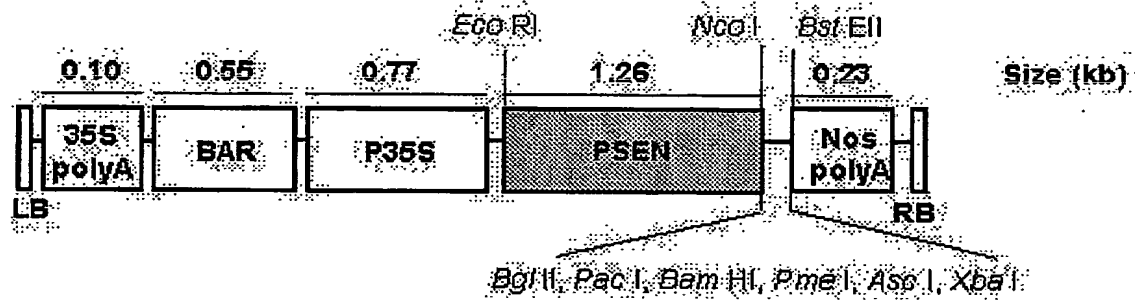
FIG. 4



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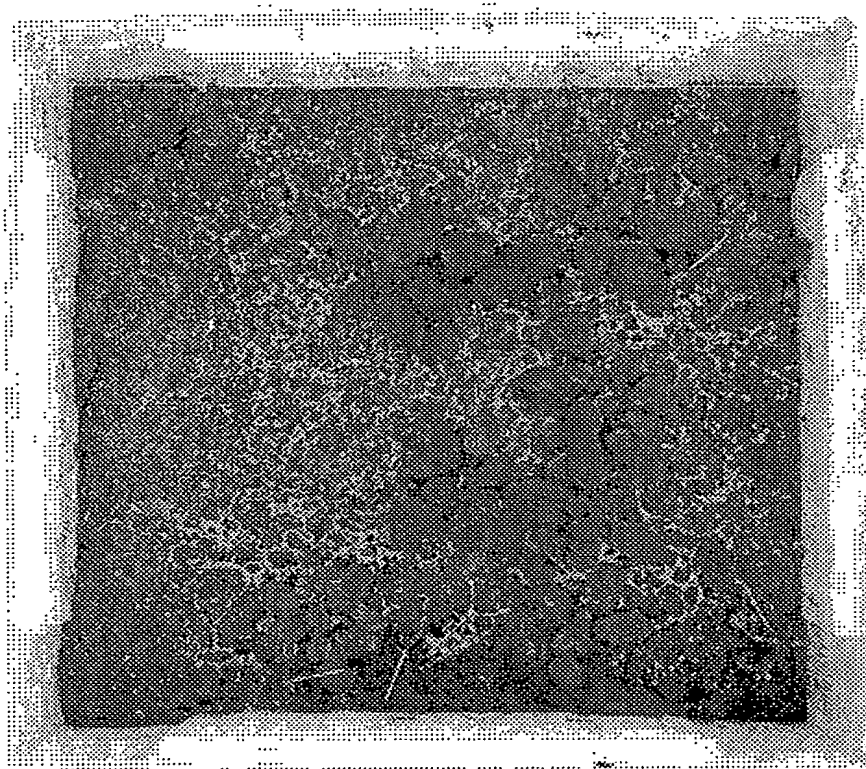
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FIG. 5



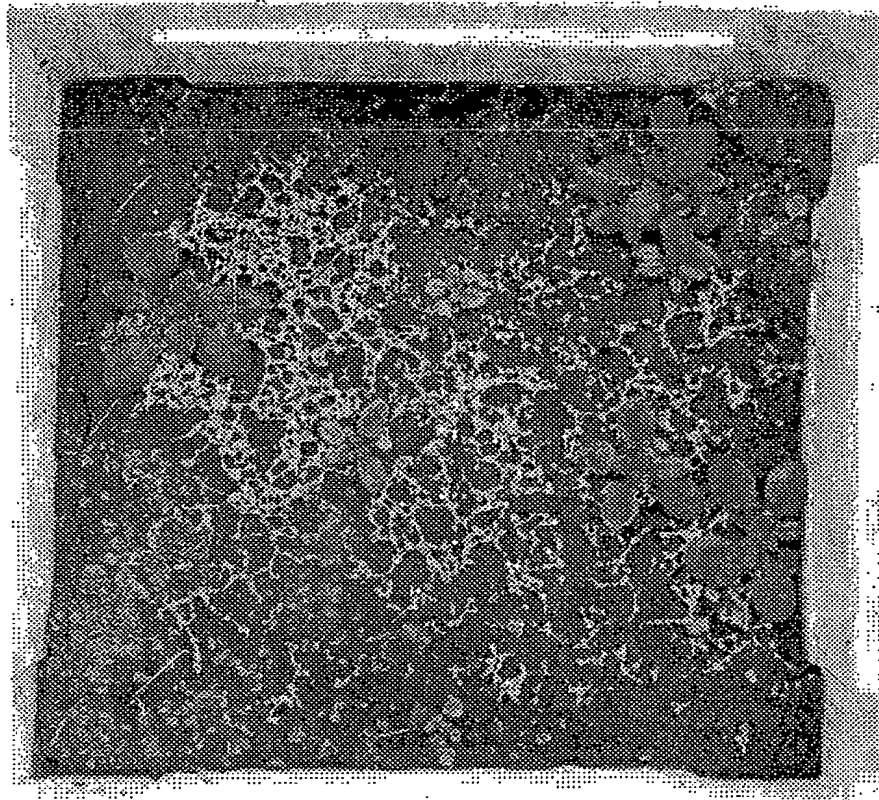
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FIG. 6A



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FIG. 6B



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